

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/572,827  
Source: IFWP  
Date Processed by STIC: 03/31/2006

# ***ENTERED***



IFWP

## RAW SEQUENCE LISTING

DATE: 03/31/2006

PATENT APPLICATION: US/10/572,827

TIME: 12:16:47

Input Set : A:\2750-1573PUS1.ST25.txt

Output Set: N:\CRF4\03292006\J572827.raw

2 <110> APPLICANT: CERES, INC.

4 <120> TITLE OF INVENTION: NUCLEOTIDE SEQUENCES AND POLYPEPTIDES ENCODED THEREBY USEFUL FOR

5 INCREASING PLANT SIZE AND INCREASING THE NUMBER AND SIZE OF LEAVES

7 <130> FILE REFERENCE: 2750-1573F(PC)

C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/572,827

C--> 10 <141> CURRENT FILING DATE: 2006-03-21

12 <160> NUMBER OF SEQ ID NOS: 50

14 <170> SOFTWARE: PatentIn version 3.0

16 <210> SEQ ID NO: 1

17 <211> LENGTH: 1453

18 <212> TYPE: DNA

19 <213> ORGANISM: Zea mays subsp. mays

21 <220> FEATURE:

22 <221> NAME/KEY: misc\_feature

23 <222> LOCATION: (1)..(1453)

24 <223> OTHER INFORMATION: ceres Seq. ID no. 12355477

27 <400> SEQUENCE: 1

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30 ccgagccaaa tctaggggct tccttcatcc gagcgtgggt tcaattctag gggtagtcac 120

32 ctcacctgaa ttccgcccac ataaattcgt cgctgccttg tgatccttgg ggtttccttg 180

34 gttcttgagt tgcgatcttc tgctgggtcg tgtcccccaa tccgtaatca atccggcgctc 240

36 taggaaacca attgctgtct agttctctta tttgtctctc gccttccttc ctccagcctg 300

38 gttaaaatat cgaaagggga ttttttttta aaaatctgct catcgaggaa gcagggaaga 360

40 caagaattgt tgcacgggat aaaggctcggg tgaaaataca agcaaactct ggggaactcgc 420

42 gtccctttgc taggtgggtt tttcctgata caaagaacac aatgggcgat gtgtccttga 480

44 acggaccctat taaggctgct gagccagggt cgggtggcat tgccaagggc aatcaagttc 540

46 tggacacgat gtccgcccgg tggacagacg agagacacag gctgtatata agctctatgg 600

48 aggcctcttt cgtcgatcaa ctgtacaacc acgggagccg tccgcgcaac gcaaaccggca 660

50 ccgccttcaa ggctctccgc agggagtagc tgcagtatga gaagaccgat gctcctgtgc 720

52 gaaggggggg taagtgtctg ggcgttcctg caaatccttg gatgcagcat ttcaggccac 780

54 gtagtgatgg cggtataaac gcgcgaggcg atgggctcgg ggattctgtg ggcgatcttg 840

56 aatctggcac tgaggcaaac cggaagagcc tctcagcgct tcatggaagg gaacgggacg 900

58 cttgtgaggg agaaccaccag cttctccatg aaagtagaga ggtctctgat caaaattttg 960

60 ctgacgacga ggctgaagct gaaacagaat caatgaaagc atacaagaaa aggagattaa 1020

62 gcaggacaat gatcaactaa atttgcaggg tcaattagct tagcctgttg caggaattga 1080

64 gatgactgtc ctaaaaggag gcagtaagat gatgggacat gtcttacgaa attttcagct 1140

66 gttgcctctt ggtagccaag gcactttgaa tccgaaggaa ggtgttgaag ggtagttgtt 1200

68 agtgatcttg tgatgatata acgagctctg gagcagttag catcggcatt ttagtggtt 1260

70 atgtctctgt tatgtgtatc tgtctatctt tcagtcctca tcggtagtgc tgcatagtac 1320

72 ctgcgtctct cgtcagaagg atattaggct aggtcactgt tattaaattt ttcaataaca 1380

74 gtgaagtgtg catgtgtttg ccaaattggt agaatcatta ttgatttcca attcacaac 1440

76 tattctttat gcc 1453

79 <210> SEQ ID NO: 2

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## RAW SEQUENCE LISTING

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Input Set : A:\2750-1573PUS1.ST25.txt

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80 <211> LENGTH: 576
81 <212> TYPE: DNA
82 <213> ORGANISM: Zea mays subsp. mays
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87 gccaaagggca atcaagttct ggacacgatg tccgccgggt ggacagacga gagacacagg      120
89 ctgtatataa gctctatgga ggcctctttc gtcgatcaac tgtacaacca cgggagccgt      180
91 ccgcgcaacg caaacggcac cgccttcaag gctctccgca gggagtacgt cgagtatgag      240
93 aagaccgatg ctctgtgctg aaggggggct aagtgtctgc gcgttcctgc aaatccttgg      300
95 atgcagcatt tcaggccacg tagtgatggc ggtaataacg cgcgaggcga tgggctcggg      360
97 gattctgtgg gcgatcttga atctggcact gagggcaaac ggaagagcct ctgagcgtct      420
99 catggaaggg aacgggacgc ttgtgagggg gaacccagc ttctccatga aagtagagag      480
101 gtctctgatc aaaattttgc tgacgacgag gctgaagctg aaacagaatc aatgaaagca      540
103 tacaagaaaa ggagattaag caggacaatg atcaac      576
106 <210> SEQ ID NO: 3
107 <211> LENGTH: 192
108 <212> TYPE: PRT
109 <213> ORGANISM: Zea mays subsp. mays
111 <220> FEATURE:
112 <221> NAME/KEY: peptide
113 <222> LOCATION: (1)..(192)
114 <223> OTHER INFORMATION: ceres Seq. ID no. 12355478
117 <400> SEQUENCE: 3
118 Met Gly Asp Val Ser Leu Asn Gly Pro Ile Lys Ala Ala Glu Pro Gly
119 1 5 10 15
121 Ala Gly Gly Ile Ala Lys Gly Asn Gln Val Leu Asp Thr Met Ser Ala
122 20 25 30
124 Gly Trp Thr Asp Glu Arg His Arg Leu Tyr Ile Ser Ser Met Glu Ala
125 35 40 45
127 Ser Phe Val Asp Gln Leu Tyr Asn His Gly Ser Arg Pro Arg Asn Ala
128 50 55 60
130 Asn Gly Thr Ala Phe Lys Ala Leu Arg Arg Glu Tyr Val Glu Tyr Glu
131 65 70 75 80
133 Lys Thr Asp Ala Pro Val Arg Arg Gly Ala Lys Cys Cys Gly Val Pro
134 85 90 95
136 Ala Asn Pro Trp Met Gln His Phe Arg Pro Arg Ser Asp Gly Gly Asn
137 100 105 110
139 Asn Ala Arg Gly Asp Gly Leu Gly Asp Ser Val Gly Asp Leu Glu Ser
140 115 120 125
142 Gly Thr Glu Ala Asn Arg Lys Ser Leu Ser Ala Ser His Gly Arg Glu
143 130 135 140
145 Arg Asp Ala Cys Glu Gly Glu Pro Gln Leu Leu His Glu Ser Arg Glu
146 145 150 155 160
148 Val Ser Asp Gln Asn Phe Ala Asp Asp Glu Ala Glu Ala Glu Thr Glu
149 165 170 175
151 Ser Met Lys Ala Tyr Lys Lys Arg Arg Leu Ser Arg Thr Met Ile Asn
152 180 185 190
156 <210> SEQ ID NO: 4
157 <211> LENGTH: 489

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Input Set : A:\2750-1573PUS1.ST25.txt

Output Set: N:\CRF4\03292006\J572827.raw

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158 <212> TYPE: DNA
159 <213> ORGANISM: Zea mays subsp. mays
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164 ttcgtcgatc aactgtacaa ccacgggagc cgtccgcgca acgcaaacgg caccgccttc      120
166 aaggctctcc gcagggagta cgtcgagtat gagaagaccg atgctcctgt gcgaaggggg      180
168 gctaagtgct gcggcggtcc tgcaaatacct tggatgcagc atttcaggcc acgtagtgat      240
170 ggcggaataa acgcgcgagg cgatgggctc ggggattctg tgggcgatct tgaatctggc      300
172 actgaggcaa accggaagag cctctcagcg tctcatggaa ggggaacggga cgcttgtagag      360
174 ggagaacccc agcttctcca tgaaagtaga gaggtctctg atcaaaattt tgctgacgac      420
176 gaggtgaag ctgaaacaga atcaatgaaa gcatacaaga aaaggagatt aagcaggaca      480
178 atgatcaac                                         489
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182 <211> LENGTH: 163
183 <212> TYPE: PRT
184 <213> ORGANISM: Zea mays subsp. mays
186 <220> FEATURE:
187 <221> NAME/KEY: peptide
188 <222> LOCATION: (1)..(163)
189 <223> OTHER INFORMATION: ceres Seq. ID no. 12355479
192 <400> SEQUENCE: 5
193 Met Ser Ala Gly Trp Thr Asp Glu Arg His Arg Leu Tyr Ile Ser Ser
194 1          5          10          15
196 Met Glu Ala Ser Phe Val Asp Gln Leu Tyr Asn His Gly Ser Arg Pro
197          20          25          30
199 Arg Asn Ala Asn Gly Thr Ala Phe Lys Ala Leu Arg Arg Glu Tyr Val
200          35          40          45
202 Glu Tyr Glu Lys Thr Asp Ala Pro Val Arg Arg Gly Ala Lys Cys Cys
203          50          55          60
205 Gly Val Pro Ala Asn Pro Trp Met Gln His Phe Arg Pro Arg Ser Asp
206 65          70          75          80
208 Gly Gly Asn Asn Ala Arg Gly Asp Gly Leu Gly Asp Ser Val Gly Asp
209          85          90          95
211 Leu Glu Ser Gly Thr Glu Ala Asn Arg Lys Ser Leu Ser Ala Ser His
212          100         105         110
214 Gly Arg Glu Arg Asp Ala Cys Glu Gly Glu Pro Gln Leu Leu His Glu
215          115         120         125
217 Ser Arg Glu Val Ser Asp Gln Asn Phe Ala Asp Asp Glu Ala Glu Ala
218          130         135         140
220 Glu Thr Glu Ser Met Lys Ala Tyr Lys Lys Arg Arg Leu Ser Arg Thr
221 145          150         155         160
223 Met Ile Asn
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228 <211> LENGTH: 441
229 <212> TYPE: DNA
230 <213> ORGANISM: Zea mays subsp. mays
232 <400> SEQUENCE: 6
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235 ggcaccgcct tcaaggctct ccgcagggag tacgtcgagt atgagaagac cgatgctcct      120

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Input Set : A:\2750-1573PUS1.ST25.txt

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237 gtgcgaaggg gggctaagtg ctgcggcggt cctgcaaata cttggatgca gcatttcagg      180
239 ccacgtagtg atggcggtaa taacgcgcga ggcgatgggc tcggggattc tgtgggctgat      240
241 cttgaatctg gcaactgaggc aaaccggaag agcctctcag cgtctcatgg aaggggaacgg      300
243 gacgcttggt agggagaacc ccagcttctc catgaaagta gagaggtctc tgatcaaaaat      360
245 tttgctgacg acgaggctga agctgaaaca gaatcaatga aagcatacaa gaaaaggaga      420
247 ttaagcagga caatgatcaa c                                     441

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251 &lt;210&gt; SEQ ID NO: 7

252 &lt;211&gt; LENGTH: 147

253 &lt;212&gt; TYPE: PRT

254 &lt;213&gt; ORGANISM: Zea mays subsp. mays

256 &lt;220&gt; FEATURE:

257 &lt;221&gt; NAME/KEY: peptide

258 &lt;222&gt; LOCATION: (1)..(147)

259 &lt;223&gt; OTHER INFORMATION: ceres Seq. ID no. 12355480

262 &lt;400&gt; SEQUENCE: 7

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263 Met Glu Ala Ser Phe Val Asp Gln Leu Tyr Asn His Gly Ser Arg Pro
264 1          5          10          15
266 Arg Asn Ala Asn Gly Thr Ala Phe Lys Ala Leu Arg Arg Glu Tyr Val
267          20          25          30
269 Glu Tyr Glu Lys Thr Asp Ala Pro Val Arg Arg Gly Ala Lys Cys Cys
270          35          40          45
272 Gly Val Pro Ala Asn Pro Trp Met Gln His Phe Arg Pro Arg Ser Asp
273          50          55          60
275 Gly Gly Asn Asn Ala Arg Gly Asp Gly Leu Gly Asp Ser Val Gly Asp
276 65          70          75          80
278 Leu Glu Ser Gly Thr Glu Ala Asn Arg Lys Ser Leu Ser Ala Ser His
279          85          90          95
281 Gly Arg Glu Arg Asp Ala Cys Glu Gly Glu Pro Gln Leu Leu His Glu
282          100         105         110
284 Ser Arg Glu Val Ser Asp Gln Asn Phe Ala Asp Asp Glu Ala Glu Ala
285          115         120         125
287 Glu Thr Glu Ser Met Lys Ala Tyr Lys Lys Arg Arg Leu Ser Arg Thr
288          130         135         140
290 Met Ile Asn

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291 145

296 &lt;210&gt; SEQ ID NO: 8

297 &lt;211&gt; LENGTH: 1494

298 &lt;212&gt; TYPE: DNA

299 &lt;213&gt; ORGANISM: Zea mays subsp. mays

301 &lt;220&gt; FEATURE:

302 &lt;221&gt; NAME/KEY: misc\_feature

303 &lt;222&gt; LOCATION: (1)..(1494)

304 &lt;223&gt; OTHER INFORMATION: ceres Seq. ID no. 12410516

307 &lt;400&gt; SEQUENCE: 8

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308 gtgttttcatt tttaatgacc attctctcat ctgctgctgg ctgcggctat atacccccct      60
310 ctctctgtct ctctatctcc ttctgttctt agacgtttct ccatagcctg agccaaatct      120
312 agggggcttg cttcatctgc tgtccgatcg tggtttggtt tctcggggct ggcgcggtca      180
314 agagcgccac tgaattccac cgaaatccgc cacggtagtt cttgcctagg tgtgtcggtg      240
316 gtcgttgccct tgtgaccctt gcggattttc ttgtttcttt ttgagttgcg atctttgcag      300

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## RAW SEQUENCE LISTING

DATE: 03/31/2006

PATENT APPLICATION: US/10/572,827

TIME: 12:16:47

Input Set : A:\2750-1573PUS1.ST25.txt

Output Set: N:\CRF4\03292006\J572827.raw

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318 gttagtctcc cccccaatcc gtaatcatcc ggcgtctagg aaactgcagt ccagttttct 360
320 tatttggtcg tctcgtgcct tctccccatc ctgggttagaa agaatatcgg aaggggggatt 420
322 tttttttttg cctgttcgta gaggaagcag tgaagacata attggtgcat ctgataaagc 480
324 tcgggcgaaa tacacgcaaa tccttggaat tttgcatccc tttgctggct cttttctgat 540
326 tcagagaacc caatggggga tgtgtccttg aatcgaccog ttaaggccga gcccaactgcc 600
328 ggtggcattg ccaagggaaa ccgagttctg gacacgatgt ccgccgggtg gacggacgag 660
330 agacacatgc tgtatataag ctccatggag gcttcttttg tcgatcagct atacaaccat 720
332 ggaaaccatc cgcacgacgc aaatggcgct ggcttcaagg ttctccgcag gggggtgtgg 780
334 gagtacatcg agtatgagaa gaccagtgcc cctgtgcgaa gtggggctaa atgctgcgtc 840
336 cctgcaaatc cttggatccg gcatttcagg ccacgtgact gcggtagtaa cgcacagagt 900
338 gacgcggtcg aggcctcagt gggcgacccat gagtcgggta ctcaggcaag ccgcaagagc 960
340 ccttcagtgt ctcatggaag ggaacgggga gcttgtaagg gagaacccca gattctacat 1020
342 gaaagtacag aggtctctga tcaaaatttt gctgacgatg aggtcgaagc tgaaacagaa 1080
344 tcaatgaaag catgcaagaa aaggagacta agcagggctt tgcaactccg tgctgaatga 1140
346 tcaagtaaat tcgcaggaac aattagctta gcctgttgca agaatcgata tgatttatcc 1200
348 taaaagaagg tgtaaagatg atgggacatg gctttcaaaa ctttcagctg ttgcctgctg 1260
350 gtagccaaga cacactgaat ccgaaggaa gcggtgaagg gtagctgtta gtgattttgt 1320
352 gatataaaga gtactggggc agttagcatc ggcattttta gcggatttaa gttcttgta 1380
354 tgtatatctg tcttctgtct tcatcagtag tgctgcttag tacctcactc tctcgtcagc 1440
356 aggatatttc tatatattgt ctgtacttgg tagatatatg tattggttga tccg 1494
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361 <211> LENGTH: 585
362 <212> TYPE: DNA
363 <213> ORGANISM: Zea mays subsp. mays
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368 aagggaaacc gagttctgga cacgatgtcc gccgggtgga cggacgagag acacatgctg 120
370 tatataagct ccatggaggc ttcttttgtc gatcagctat acaaccatgg aaaccatccg 180
372 cacgacgcaa atggcgctgg cttcaagggt ctccgcaggg ggggtgtggga gtacatcgag 240
374 tatgagaaga ccagtgcctc tgtgcgaagt ggggctaaat gctgcgtccc tgcaaatcct 300
376 tggatccggc atttcaggcc acgtgactgc ggtagtaacg cacagagtga cgcggtcgag 360
378 gcctcagtg gcgaccatga gtcgggtact caggcaagcc gcaagagccc ttcagtgtct 420
380 catggaaggg aacggggagc ttgtaaggga gaacccaga ttctacatga aagtacagag 480
382 gtctctgatc aaaattttgc tgacgatgag gctgaagctg aaacagaatc aatgaaagca 540
384 tgcaagaaaa ggagactaag cagggctttg cactccggtg ctgaa 585
388 <210> SEQ ID NO: 10
389 <211> LENGTH: 195
390 <212> TYPE: PRT
391 <213> ORGANISM: Zea mays subsp. mays
393 <220> FEATURE:
394 <221> NAME/KEY: peptide
395 <222> LOCATION: (1)..(195)
396 <223> OTHER INFORMATION: ceres Seq. ID no. 12410517
399 <400> SEQUENCE: 10
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401 1 5 10 15
403 Gly Gly Ile Ala Lys Gly Asn Arg Val Leu Asp Thr Met Ser Ala Gly
404 20 25 30
406 Trp Thr Asp Glu Arg His Met Leu Tyr Ile Ser Ser Met Glu Ala Ser

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**RAW SEQUENCE LISTING ERROR SUMMARY**

DATE: 03/31/2006

PATENT APPLICATION: US/10/572,827

TIME: 12:16:48

Input Set : A:\2750-1573PUS1.ST25.txt

Output Set: N:\CRF4\03292006\J572827.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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 Seq#:47; Xaa Pos. 123  
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**Invalid Line Length:**

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 4  
 Seq#:49; Line(s) 2344,2365

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/572,827

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Output Set: N:\CRF4\03292006\J572827.raw

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L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:1753 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:600  
L:1814 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:112  
L:2273 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:0  
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L:2485 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:0  
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